

QUALCOMM 1915-1920 MHz Experiment Proposal

1 Introduction

Qualcomm Incorporated (NASDAQ:QCOM - News) is the world leader in 3G and next-generation mobile technologies. For 25 years, Qualcomm ideas and inventions have driven the evolution of wireless communications, connecting people more closely to information, entertainment and each other. Today, Qualcomm technologies are powering the convergence of mobile communications and consumer electronics, making wireless devices and services more personal, affordable and accessible to people everywhere. For more information, please visit www.qualcomm.com.

QUALCOMM will be collaborating with Faculty and Students on the campus of Massachusetts Institute of Technology (MIT) in Cambridge, MA. in an effort to further our testing, validation and application concepts around a Peer to Peer system currently under development.

To support this effort there will be up to four mobile devices operating at 1915-1920MHz in the MIT Lab location specified below. The primary objective of this effort is to explore creative application ideas which are enabled by this peer to peer technology, demonstrate/validate system performance and get feedback on the proximal networking architecture from those studying the subject at MIT.

2 Transmitter Information

The maximum output power for mobile units and the fixed site is listed in Table 1. Table 2 lists the fixed site location and operational radius where mobiles will be operated. The actual fixed site ERP deployed may be lower than the power listed after the network design has been finalized.

Table 1 Transmitter Information

Type	Frequency (MHz)	Power (dBm EIRP)	Power (W EIRP)	Power (W ERP)	Bandwidth (MHz)	Emissions Designator:
Fixed	1915-1920	50	100	60.7	5	5M00W7W
Mobile	1915-1920	24	0.251	0.153	5	5M00W7W

Table 2 Transmitter Site Information

Type	Address	County	Lat	Long	Radius (miles)	Radius (km)	Antenna Type
Fixed	20 Ames Street Cambridge MA	MIDDLESEX	42-21-35N	71-05-15W	5	8.0	Omni
Mobile		MIDDLESEX					Omni

3 Frequency Coordination

A search of the FCC online databases has shown no active licenses, experimental licenses, or STAs issue for the requested frequency range within the identified experimental area.